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EDITORIALS.

Prof. John N. Lyle, of Westminster College, has resigned his position on account of ill health, and is now living in Bentonville, Arkansas.

We shall be pleased to have our subscribers send us the names of persons likely to subscribe for the MONTHLY, in order that we may send such persons sample copies.

Any reader of the MONTHLY having a copy of *Salmon's Higher Plane Curves*, third edition, and wishing to sell the same, should write to us stating the price of the book.

We have only six complete sets of Volumes I and II, of the MONTHLY. Volume I will be sent to any address in the United States or Canada for \$2.00; Volume II will be sent on receipt of \$2.50.

Prof. Robert J. Aley, of Indiana University, is now studying mathematics in the University of Pennsylvania, having received a Mathematical Fellowship in that Institution last spring.

In our August-September number, we sent out bills to all those who are owing us. We hope that the matter of remittance may receive the attention of all those who are in arrears, as the MONTHLY is greatly in need of funds. All bills not paid by December 31st will be sent to an attorney for collection.

Prof. A. B. Nelson, of Centre College, Kentucky, says, in a letter of October 13th, "You deserve the thanks of mathematicians in this country for your self-sacrificing labors in behalf of our favorite science." We desire to thank Professor Nelson as well as many others who have thus expressed their appreciation of our labor. Surely it is a labor of love.

BOOKS AND PERIODICALS.

Elementary Solid Geometry and Mensuration. By Henry Dallas Thompson, D. Sc., Ph. D., Professor of Mathematics in Princeton University. 8vo. Cloth, 200 pages. Price, \$1.25. New York: The Macmillan Co.

In this book, the author lays the foundation of his subject in clear cut and accurate *definitions* and well illustrated *postulates*. The diagrams are very fine, showing very accurately to the eye the relation of the points, lines, and planes. There are numerous original exercises scattered throughout the book.

B. F. F.

The Elements of Algebra. Adapted for use in High Schools, Academies, and Colleges. By Lyman Hall, Graduate United States Military Academy, and Professor of Mathematics, Georgia School of Technology. 8vo. Cloth and Leather Back, 368 pages. Chicago: American Book Co.

This work is intended for beginners who have mastered the principles of any good common school Arithmetic. The familiar methods of arithmetic are preserved, in order to gradually convince the student that algebra is merely an extension of the mathematical knowledge he already possesses. *Preface.* B. F. F.

Trigonometry for Beginners. By the Rev. J. B. Lock, M. A., Fellow of Gonville and Caius College, Cambridge, Formerly Master at Eaton. Revised and Enlarged for the use of American Schools, by John A. Miller, A. M., Assistant Professor of Mathematics, Leland Stanford Jr. University, Professor (elect) of Mechanics and Mathematical Astronomy, Indiana University. Large 8vo. Cloth, 148 and 64 pages. Price, \$1.10.

As we have not seen the original book, we do not know just how materially Professor Miller has changed it. He tells us in his Preface that it differs from the original, chiefly in the following particulars: (1) The subject matter of Chapter VII formerly followed that of Chapters VIII and IX; (2) the addition formulæ are proved for angles of any magnitude, and for more than two angles; (3) a chapter on Inverse Trigonometric Functions; and two chapters on Spherical Trigonometry have been added; (4) logarithmic and trigonometric tables have been inserted. Some of the trigonometrical formulæ are very neatly established by Geometrical Proof. B. F. F.

A School Algebra. Designed for use in High Schools and Academies. By Emerson E. White, A. M., LL. D., Author of "Series of Mathematics," "Elements of Pedagogy," "School Management," etc. 8vo. Cloth and Leather Back, 394 pages. Chicago: American Book Co.

The author's aim has been to prepare a school algebra that is pedagogically sound as well as mathematically accurate. Few educators will question Dr. White's ability to write a work pedagogically sound, but many mathematicians, upon examination of his treatment of *Undetermined Coefficients*, Chapter XXI., will question the mathematical accuracy of his text on algebra. His treatment of Undetermined Coefficients is that given in most algebras written during the last and present century. This demonstration is now pretty generally admitted to be incorrect, and correct demonstrations are being published in most recent works. However, upon the whole, the book is one well suited for the purpose for which it is written. B. F. F.

Elements of Geometry. By Andrew W. Phillips, Ph. D., and Irving Fisher, Ph. D., Professors in Yale University. Large 8vo. Cloth and Leather Back, 540 pages. Price, \$1.75. New York: Harper & Bros.

There are several features in this work that make it especially interesting. Of these the most prominent are the beautiful diagrams. These are photo-engravings arranged side by side with skeleton drawings of geometrical figures. The photographs were taken from actual models recently constructed for use in the class-rooms of Yale University. In this respect the work excels anything that has yet appeared in this country. The work is characterized by clearness of presentation, both in the form of the diagrams and the natural and symmetrical methods of proof. The book closes with a short but very clear treatment of Modern Geometry. This will be helpful to those teachers who desire a knowledge of

the three kinds of Geometries. We believe that this work is destined to be very extensively used throughout the country. B. F. F.

A History of Elementary Mathematics, with Hints and Methods of Teaching. By Florian Cajori, Ph. D., Professor of Physics in Colorado College. 8vo. Cloth, 304 pages. Price, \$1.50. New York: The Macmillan Co.

The book is by no means an abridged edition of the author's *History of Mathematics*. It is an entirely new book giving a somewhat detailed account of the rise, struggle, and progress of Arithmetic, Algebra, and Geometry. The book should be read by all teachers of these subjects, and by mathematical students generally. B. F. F.

The Cosmopolitan. An Illustrated Monthly Magazine. Edited by John Brisben Walker. Price, \$1.00 per year. Single numbes, 10 cents. Irvington-on-the-Hudson, New York.

The October number contains the following: A Summer Tour in the Scottish Highlands; The Story of a Child Trainer; The Perils and Wonders of a True Desert; A Modern Fairy Tale; Hofman's Object Lesson; Personal Recollections of the Tai-Ping Rebellion; The Modern Woman Out-of-Doors; The True History of our Cooks; To a Hyacinth Bulb (poem). B. F. F.

The Review of Reviews. An International Illustrated Monthly Magazine. Edited by Dr. Albert Shaw. Price, \$2.50 per year. Single number, 25 cents. The Review of Reviews Co., New York.

In the September and October numbers of *The Review of Reviews*, the editor has given a remarkably fair and unprejudiced account of the progress of the present political campaign. It is a great satisfaction, after having read statements in the daily papers, which are believed to be misrepresenting, to go to *The Review of Reviews* and get the facts there given by its able editor. The November number contains a very able article on the "Summing Up of the Vital Issues of 1896," by Rev. Dr. Lyman Abbott. Also the question "Would Free Coinage Benefit Wage Earners?" is debated by Dr. Chas. B. Spahr and Prof. Richmond Mayo-Smith. This number also offers a remarkable symposium of current thought on "What Should be Done with Turkey?" The MONTHLY suggests in answer to this question, that Turkey be given a material and substantial roast by the civilized world. B. F. F.

ERRATA.

After the word, ellipses, page 181, problem 60, insert, "passing through the foci of a given ellipse and having the tangents at the ends of the major axes for directrices."

Page 205, line 1, for " $\frac{2}{3}$ " read $\frac{3}{2}$.

Page 205, line 1, for " $\frac{3}{2}$ " read $\frac{2}{3}$.

Page 205, line 12, for " $4a^3$ " read $2a^3$.

Page 206, line 3, for " $(5x^3)^0$ " read $(5x)^{3^0}$.

Page 217, line 15, for " γ " read z .

Throughout the solution to problem 34, Mechanics, for " E_o^π " read F_o^π .